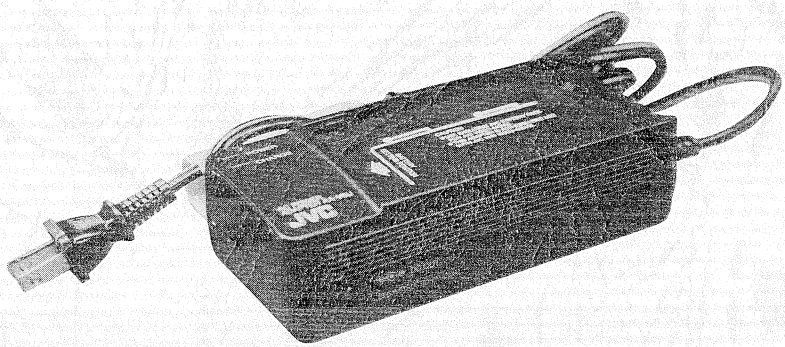
JVC

SERVICE MANUAL

AC POWER ADAPTER

AA-V6U



AA-V6U SPECIFICATIONS

Power requirement	: USA and Canada: AC 120 V~, 60 Hz Other countries: AC 110 – 240 V~, 50/60 Hz
Power consumption	: 23 watts
Output	DC 14 V ⎓ 1.1 A (Charge) DC 9.6 V ⎓ 1.2 A (VTR)
Charging system	: Constant current, peak detection, timer controlled.
Dimensions	: 150(W) x 42(H) x 69(D) mm (5-15/16" x 1-11/16" x 2-3/4")
Weight	: Approx. 360 g (0.8 lbs)

COPYRIGHT © 1989 VICTOR COMPANY OF JAPAN, LTD.

No. 86079
July 1989

TABLE OF CONTENTS

Section	Title	Page
	Important Safety Precautions	
	INSTRUCTIONS	
1.	DISASSEMBLY	1
2.	ELECTRICAL ADJUSTMENTS	2
3.	GENERAL INFORMATION	3
4.	MAIN TYPES OF ACTIVE AND PACKAGE CIRCUITS	3
5.	CIRCUIT BOARDS	4
6.	MAIN SCHEMATIC DIAGRAM	5
7.	EXPLODED VIEWS AND PARTS LIST	6
8.	ELECTRICAL PARTS LIST	6
9.	PACKING ASSEMBLY	8
10.	TECHNICAL INFORMATIONS	9

Important Safety Precautions

Prior to shipment from the factory, JVC products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

● Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.

2. Parts identified by the ⚠ symbol and shaded (▒) parts are critical for safety.
   Replace only with specified part numbers.
   Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

3. Fuse replacement caution notice.
   Caution for continued protection against fire hazard.
   Replace only with same type and rated fuse(s) as specified.

4. Use specified internal wiring. Note especially:
   1) Wires covered with PVC tubing
   2) Double insulated wires
   3) High voltage leads

5. Use specified insulating materials for hazardous live parts. Note especially:
   1) Insulation Tape
   2) PVC tubing
   3) Spacers
   4) Insulation sheets for transistors
   5) Barrier

6. When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering.

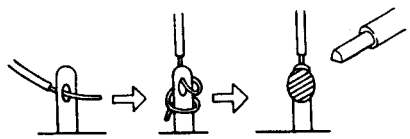


Fig. 1

7. Observe that wires do not contact heat producing parts (heat-sinks, oxide metal film resistors, fusible resistors, etc.)

8. Check that replaced wires do not contact sharp edged or pointed parts.

9. When a power cord has been replaced, check that 10—15 kg of force in any direction will not loosen it.

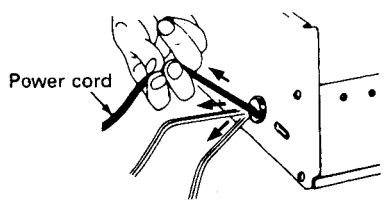


Fig. 2

10. Also check areas surrounding repaired locations.

11. Products using cathode ray tubes (CRTs)
    In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the specified parts. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

12. Crimp type wire connector
    In such cases as when replacing the power transformer in sets where the connections between the power cord and power transformer primary lead wires are performed using crimp type connectors, if replacing the connectors is unavoidable, in order to prevent safety hazards, perform carefully and precisely according to the following steps.

    1) **Connector part number** : E03830-001
    2) **Required tool** : Connector crimping tool of the proper type which will not damage insulated parts.
    3) **Replacement procedure**
       (1) Remove the old connector by cutting the wires at a point close to the connector.
       Important : Do not reuse a connector (discard it).

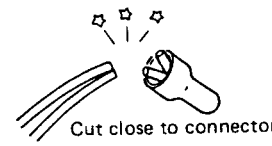


Fig. 3

(2) Strip about 15 mm of the insulation from the ends of the wires. If the wires are stranded, twist the strands to avoid frayed conductors.

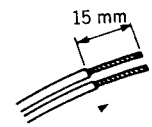


Fig. 4

(3) Align the lengths of the wires to be connected. Insert the wires fully into the connector.

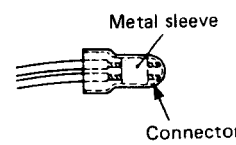


Fig. 5

(4) As shown in Fig. 6, use the crimping tool to crimp the metal sleeve at the center position. Be sure to crimp fully to the complete closure of the tool.

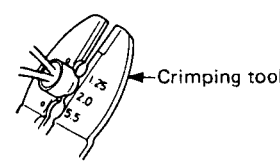


Fig. 6

(5) Check the four points noted in Fig. 7.

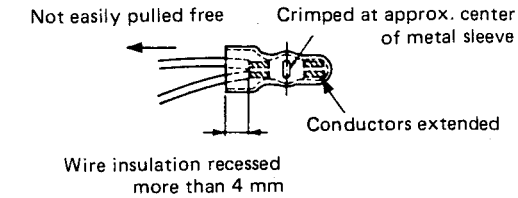

Not easily pulled free
Crimped at approx. center of metal sleeve
Conductors extended
Wire insulation recessed more than 4 mm

Fig. 7

● Safety Check after Servicing

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions, Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

1. Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

2. Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table 1 below.

3. Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table 1 below.

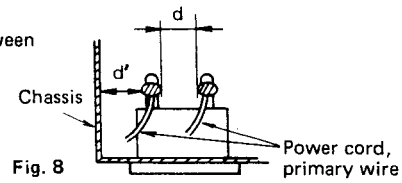


Fig. 8

4. Leakage current test

Confirm specified or lower leakage current between earth ground/power cord plug prongs and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.).

Measuring Method: (Power ON)

Insert load Z between earth ground/power cord plug prongs and externally exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure 9 and following table 2.

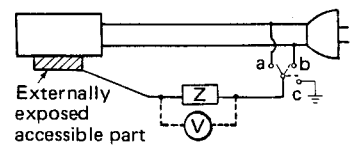


Fig. 9

5. Grounding (Class I model only)

Confirm specified or lower grounding impedance between earth pin in AC inlet and externally exposed accessible parts (Video in, Video out, Audio in, Audio out or Fixing screw etc.).

Measuring Method:

Connect milli ohm meter between earth pin in AC inlet and exposed accessible parts. See figure 10 and grounding specifications.

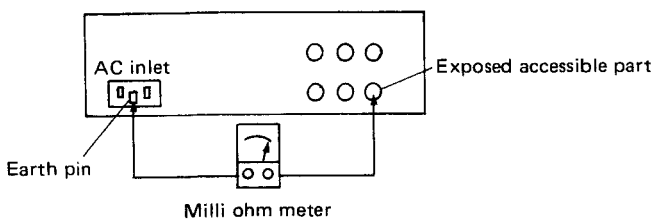


Fig. 10

Grounding Specifications

Region	Grounding Impedance (Z)
USA & Canada	Z ≦ 0.1 ohm
Europe & Australia	Z ≦ 0.5 ohm

AC Line Voltage	Region	Insulation Resistance (R)	Dielectric Strength	Clearance Distance (d), (d')
100 V	Japan	R ≧ 1 MΩ/500 V DC	AC 1 kV 1 minute	d, d' ≧ 3 mm
100 to 240 V			AC 1.5 kV 1 minute	d, d' ≧ 4 mm
110 to 130 V	USA & Canada	–	AC 900 V 1 minute	d, d' ≧ 3.2 mm
110 to 130 V 200 to 240 V	Europe & Australia	R ≧ 10 MΩ /500 V DC	AC 3 kV 1 minute (Class II) AC 1.5 kV 1 minute (Class I)	d ≧ 4 mm d' ≧ 8 mm (Power cord) d' ≧ 6 mm (Primary wire)

Table 1 Specifications for each region

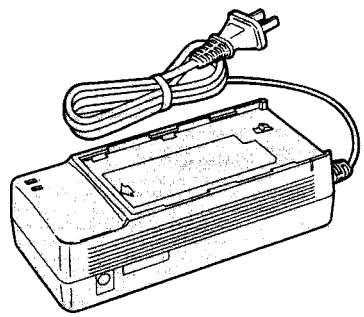
AC Line Voltage	Region	Load Z	Leakage Current (i)	a, b, c
100 V	Japan	1 kΩ	i ≦ 1 mA rms	Exposed accessible parts
110 to 130 V	USA & Canada	0.15 μF, 1.5 kΩ	i ≦ 0.5 mA rms	Exposed accessible parts
110 to 130 V 220 to 240 V	Europe & Australia	2 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Antenna earth terminals
		50 kΩ	i ≦ 0.7 mA peak i ≦ 2 mA dc	Other terminals

Table 2 Leakage current specifications for each region

Note: These tables are unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

INSTRUCTIONS
MANUEL D'INSTRUCTIONS

AA-V6U
AC POWER ADAPTER
ADAPTATEUR SECTEUR



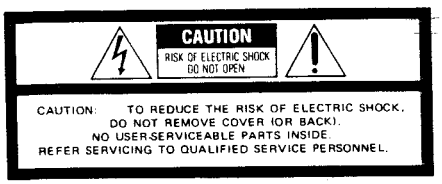
Specifically for the AA-V6U
Spécial pour le AA-V6U

For customer Use:
Enter below the Serial No. which is located on the side of the unit. Retain this information for future reference.
Model No. **AA-V6U**
Serial No. _____

JVC

YU30052-87

Thank you for purchasing the JVC AA-V6U AC Power Adapter. This unit provides DC power for the JVC VideoMovie from a household AC outlet. It can also be used to recharge the JVC Battery Pack for exclusive use with the JVC Video Movie. To avoid problems and obtain the best results, please read this instruction booklet carefully before use.


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO RAIN OR MOISTURE.

This unit should be used with AC 120 V∿, 60 Hz only in the USA and Canada. In other countries, this unit should be used with AC 110 – 240 V∿, 50/60 Hz only.

CAUTION:
To prevent electric shocks and fire hazards, do NOT use any other power source.

NOTE:
The rating plate (Serial number plate) is on the bottom of the unit.

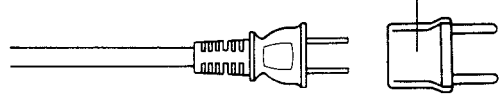
CAUTION
TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

PRECAUTIONS

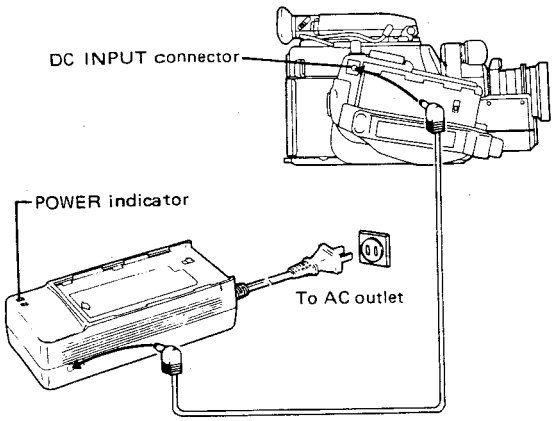
- As an AC power adapter, the AA-V6U is used exclusively with the JVC VideoMovie.
- If used near a radio, this unit may interfere with reception.
- Prevent inflammables, water and metallic objects from entering the unit.
- Do not disassemble or modify the unit.
- Do not apply shocks to the unit.
- Do not subject the unit to direct sunlight.
- Avoid using the unit in extremely hot or humid places.
- Avoid using the unit in places subject to vibrations.

When using this set in areas other than the USA and Canada.

USING HOUSEHOLD AC PLUG ADAPTER
In case of connecting attached Power Cord Plug to AC wall outlet other than American National Standard C73 series type, use an AC plug adapter, so called "Siemens Plug", as shown below.
For this AC plug adapter, ask for at your nearest JVC local dealer.



PROVIDING POWER FOR THE VIDEOMOVIE



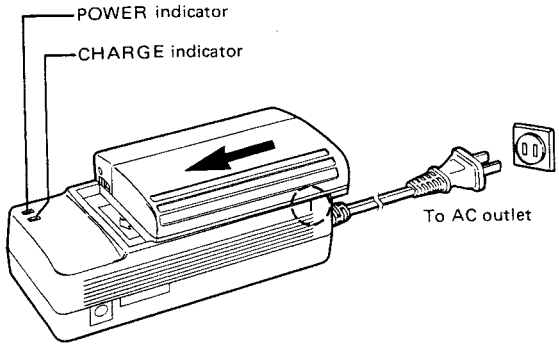
1 Connect the AC power cord to a wall outlet.
(The POWER indicator will light.)

2 Connect the VideoMovie to the AC POWER ADAPTER using the provided DC cord.

3 Unplug the AC power cord after finishing operation.

Note:
If the provided DC cord is connected to the AC POWER ADAPTER, the battery pack will not be charged and CHARGE indicator goes off.

CHARGING THE BATTERY PACK



1 Connect the AC power cord to a wall outlet.
(The POWER indicator will light.)
Note:
Be sure to unplug the DC plug before charging the battery pack.

2 Align the marks on the battery pack and adapter.
Slide the battery pack in the direction of the arrow until it locks in place.

Charging time		
NB-P5U 60 min	NB-P8U 120 min	BN-V7GU 80 min
NB-P6U 60 min	BN-V5GU 50 min	BN-V66RU 70 min
NB-P7U 70 min	BN-V6GU 70 min	BN-V77RU 80 min

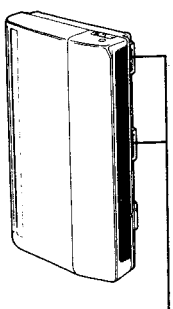
When charging is completed, the CHARGE indicator that is red turns to green.

3 Unplug the AC power cord.

CAUTION
- If the battery is loaded after a long discharge period, a few minutes may pass before the CHARGE INDICATOR lights.

A WORD ON THE EXCLUSIVE BATTERY PACKS

The battery packs are nickel-cadmium batteries. Give attention to the following to make the most of their characteristics.



Temperature ranges:
The recharging time is based on room temperature of 20°C (68°F).
The lower the temperature, the longer the rechraging time.

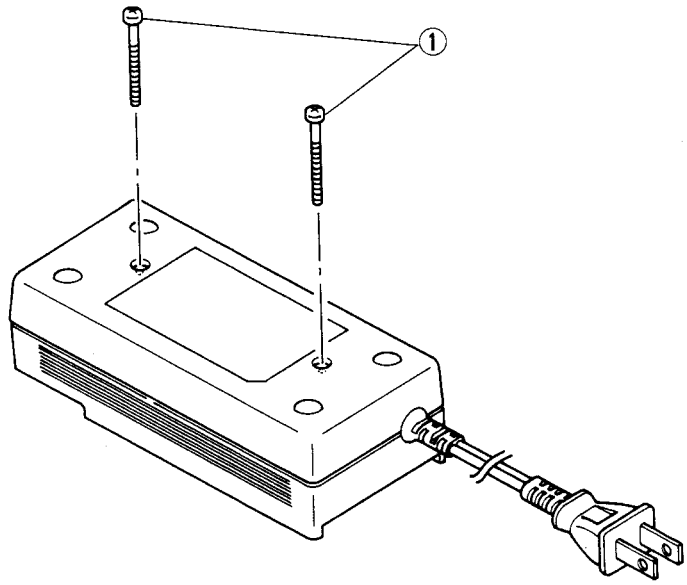
For charging:
10°C to 35°C (50°F – 95°F)
For operating:
0°C to 40°C (32°F – 104°F)
For storing:
-10°C to 30°C (14°F – 86°F)

THE BATTERY IS KEPT UNCHARGED FOR SHIPMENT. CHARGE IT BEFORE USE.

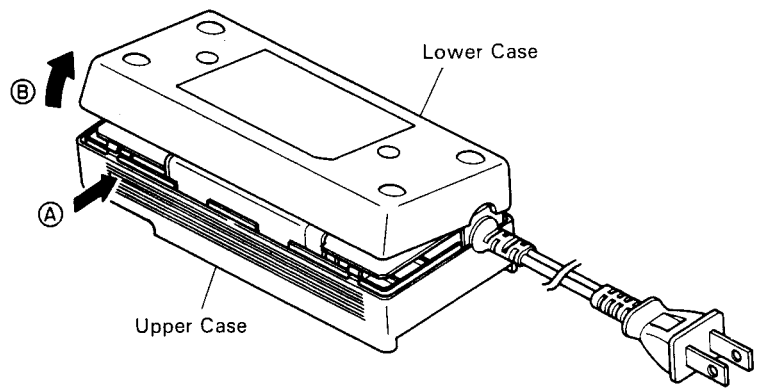
- To avoid a hazard:
  1. Do not burn the battery.
  2. Do not short-circuit the terminals.
  3. Do not modify or disassemble the battery.
  4. Use only specified chargers.
- To prevent damage and prolong service life:
  1. Avoid dropping and unnecessary shocks.
  2. Avoid repeated charging without first discharging.
- This unit has a limited service life:
  Near the end of its service life, when it begins to deliver less recording time per charge, purchase a replacement.
- It is normal for the battery to be warm after charging or use.
- This is a chemical reaction type battery; its properties are best maintained under the following conditions:
  1. Optimum charging takes place at temperatures between 10°C (50°F) and 35°C (95°F). Cooler temperatures impede chemical reaction. Warmer temperatures can prevent complete charging.
  2. Store in a cool dry place. Extended exposure to high temperatures will increase natural discharge and shorten service life.
  3. Total natural discharge may occur during long storage periods (uncharged storage is preferable; recharge one day before use.)
  4. Remove from charger or powered unit when not in use; some units draw current even when switched off.

SECTION 1
DISASSEMBLY

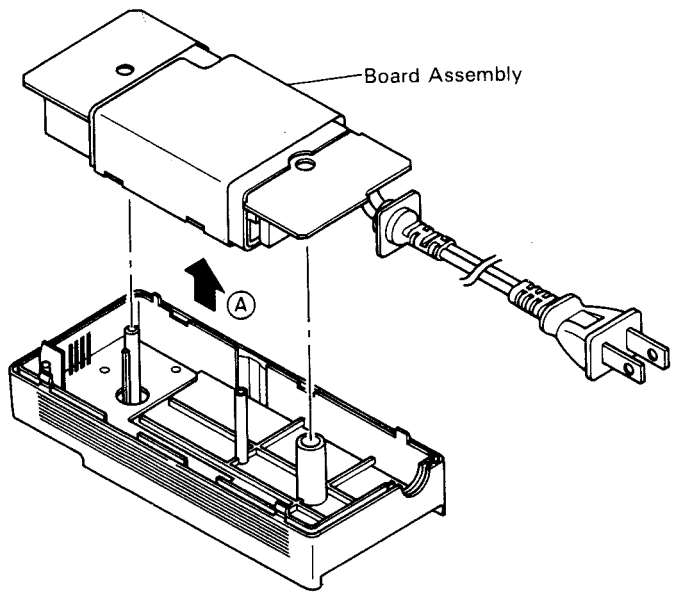
1. Take out 2 screws ①.



2. Press at point (A) and raise the lower case in the direction indicated by arrow (B). The upper and lower cases can then be separated.

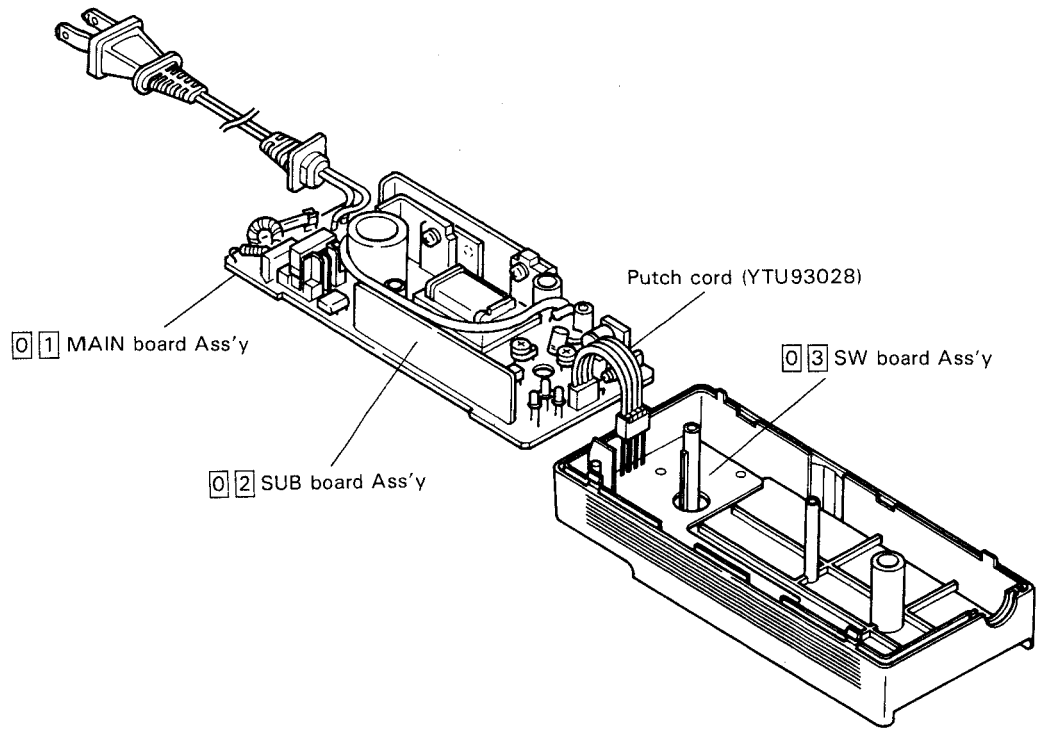


3. Raise the circuit board assembly (main and sub boards) as indicated be arrow (A) and remove the assembly from the lower case.



SECTION 2
ELECTRICAL ADJUSTMENT

2.1 Standard set up for ELECTRICAL adjustment



2.2 MAIN CIRCUIT ([0] [1] MAIN board)

No.	Item	Mode & Signal	Test Point	Adjustment Parts	Procedure
			Waveform & Adjustment		
1.	OUTPUT Voltage	—	• OUTPUT Terminal	• VR21 OUTPUT voltage Level [0] [1] MAIN	1) Connect the DC power cord to the DC jack. 2) Connect the other end of the DC power cord to a voltmeter. 3) Adjust VR21 for 10.7 V output voltage.
2.	Charging current	—	• BAT Terminal	• VR22 charging current Level [0] [1] MAIN	1) Depress SW1 of the switch board assembly. (Confirm LEDS 23 of the main board assembly lights.) 2) Connect an ammeter to the battery terminals. 3) Adjust VR22 for 50 mA.

SECTION 3
CHARTS AND DIAGRAMS

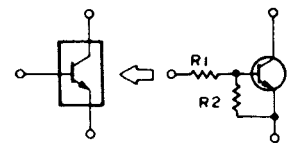
3. GENERAL INFORMATIONS

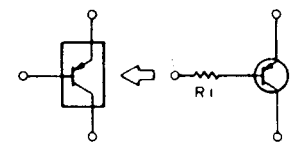
3.1 Schematic diagram values

Unless otherwise specified.

1. All resistance values are in ohms, 1/6 W, 1/8 W, (refer to parts list).
2. All capacitance values are in μF, (P; PF).
3. The voltage of each section has been measured without load by a digital voltmeter. The ground contact on the primary side uses the (−) side of D1.
4. Shaded (▒▒▒) parts are critical for safety. Replace only with specified parts numbers.

3.2 Digital transistor





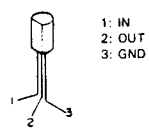
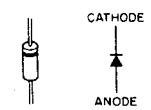
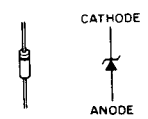
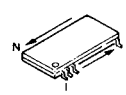
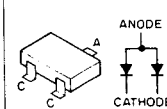
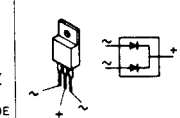
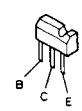
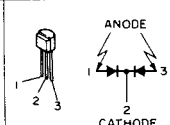
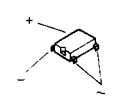
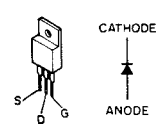
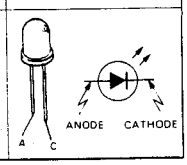
DTA114T
T mark only

Note:
The digital transistor includes built in resistors. It features small size and high reliability.
Both PNP and NPN types are available.

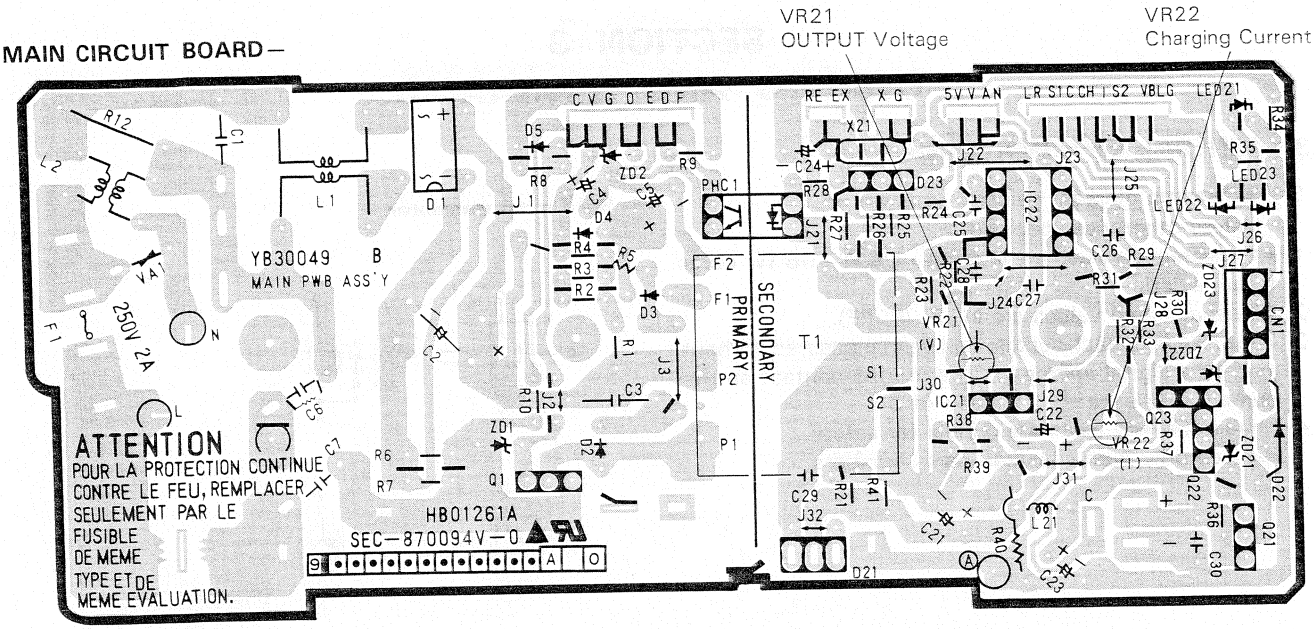
Uses:
Inverter, Interface, driver circuits.

3.2 MAIN TYPES OF ACTIVE AND PACKAGE CIRCUITS

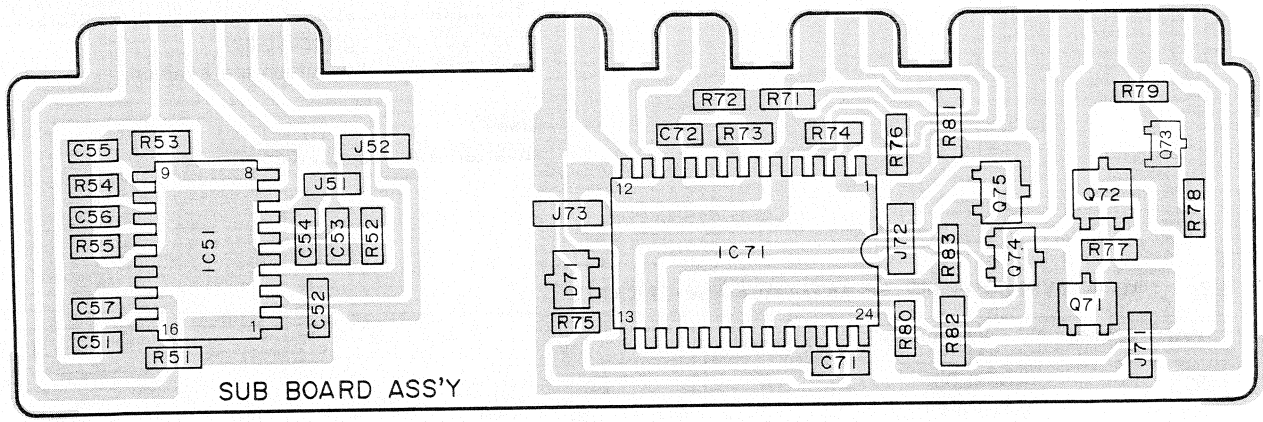
PART NAME	PART NO.	CHART
[IC]	AN78L05	1A
	BA10358	1A
	HA012611S	1B
	M51978FP	1B
[Transistor]	UN2113	2A
	UN2213	2A
	2SB952	2B
	2SD639	2C
	2SK951	2D
[Diode]	ERA15-01Y	3A
	ERA22-02Y	3A
	ERA22-04Y	3A
	ERA22-08Y	3A
	ERB81-004L6	3A
	MA151	3A
	MA151WK	3B
	MA175WK	3C
	MA4039(M)	4A
	MA4047(M)	4A
	MA4200(M)	4A
	MA4300(M)	4A
	MA649	4B
	SLR-34MC5F	4D
	SLR-34VC5F	4D
	S1WB(A)60	4C

	1	2	3	4
A				
B				
C				
D				

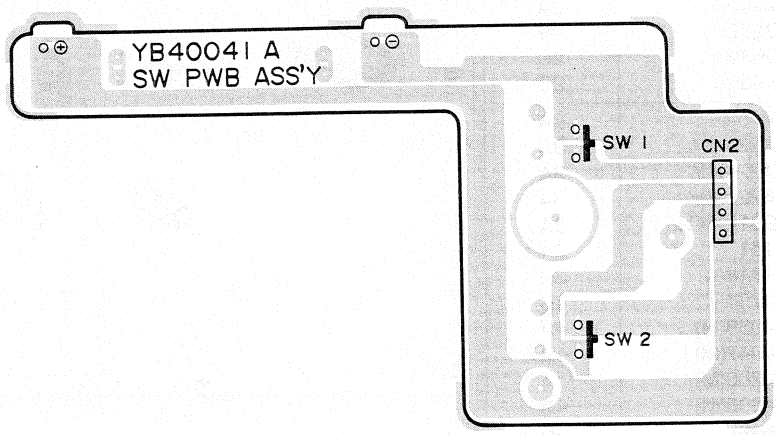
—MAIN CIRCUIT BOARD—



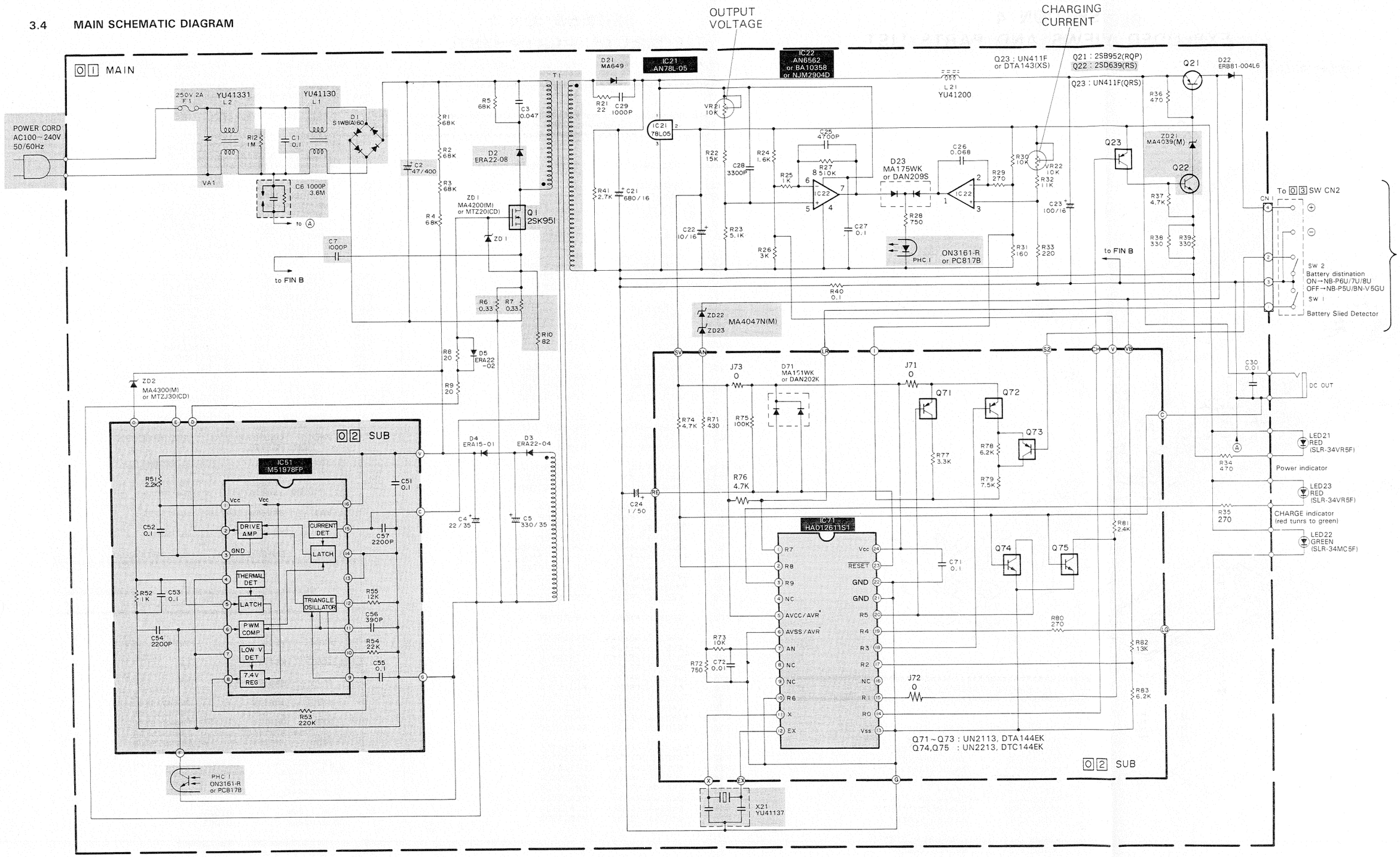
—SUB CIRCUIT BOARD—



—SW CIRCUIT BOARD—



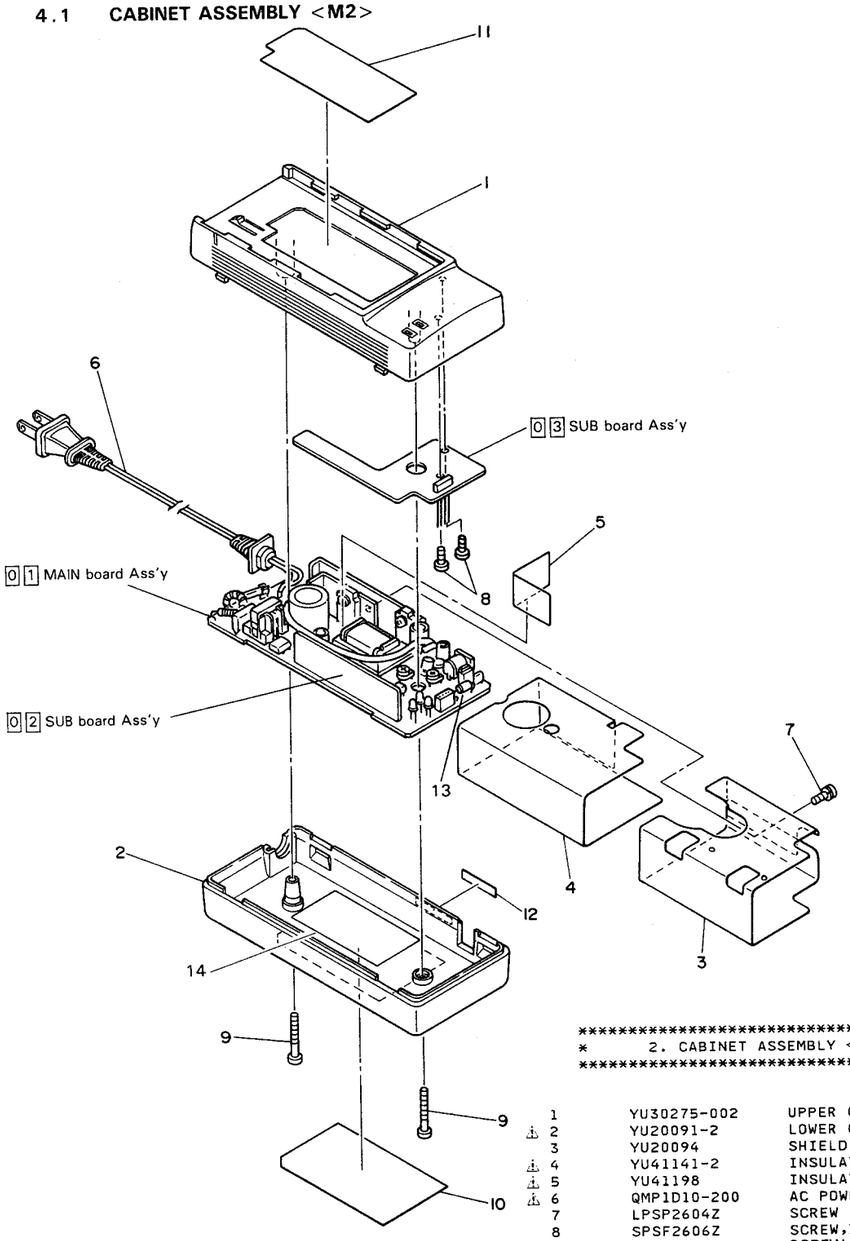
3.4 MAIN SCHEMATIC DIAGRAM



• Shaded (▒▒▒) parts are critical for safety. Replace only with specified part numbers.

SECTION 4
EXPLODED VIEWS AND PARTS LIST

4.1 CABINET ASSEMBLY <M2>



****
* 2. CABINET ASSEMBLY <M2> *
****

	1	YU30275-002	UPPER CASE
◭	2	YU20091-2	LOWER CASE
	3	YU20094	SHIELD PLATE
◭	4	YU41141-2	INSULATER(B)
◭	5	YU41198	INSULATER(C)
◭	6	QMP1D10-200	AC POWER CORD
	7	LPSP2604Z	SCREW
	8	SPSF2606Z	SCREW,X2
	9	SPSG2625M	SCREW,X2
◭	10	YU30302-2	RATING LABEL
◭	11	YU30277-2	CAUTION PLATE
◭	12	YU30276-2	OUTPUT LABEL
⚠	14	PU55042	BARRIER CAUTION

SECTION 5
ELECTRICAL PARTS LIST

#◭	REF NO.	PART NO.	PART NAME, DESCRIPTION
**	**********	**********	**********
			********** * 3. MAIN BOARD ASSEMBLY <01> * **********
	PWBA	YB30049B	MAIN BOARD ASSY
	IC21	AN78L05	IC
	IC22	AN6562	IC
	OR	NJM2904D	IC
	OR	BA10358	IC
◭	Q1	2SK951	FE TRANSISTOR
	Q21	2SB952(RQP)	TRANSISTOR
◭	Q22	2SD639R,S	TRANSISTOR
	Q23	UN411F	DIGI TR
	OR	DTA143XS	DIGI TR
◭	D1	S1WB(A)60	BRIDGE DIODE
◭	D2	ERA22-08	DIODE
	D3	ERA22-04	DIODE
	D4	ERA15-01	DIODE
	D5	ERA22-02	DIODE
	ZD1	MA4200(M)	ZENER DIODE
	OR	MTZ20(CD)	ZENER DIODE
	ZD2	MA4300(M)	ZENER DIODE
	OR	MTZJ30(CD)	ZENER DIODE
◭	D21	MA649	DIODE
	D22	ERB81-004L6	BARRIER DIODE
	D23	MA175WK	DIODE
	OR	DAN209S	DIODE
◭	ZD21	MA4039(M)	ZENER DIODE
◭	ZD22	MA4047N(M)	ZENER DIODE
◭	ZD23	MA4047N(M)	ZENER DIODE
	R1	QRD14AJ-683Y	RESISTOR
	R2	QRD14AJ-683Y	RESISTOR
	R3	QRD14AJ-683Y	RESISTOR
	R4	QRD14AJ-683Y	RESISTOR
	R5	QRG029J-683A	OMF RESISTOR
◭	R6	QRX124J-R33X	MF RESISTOR
◭	R7	QRX124J-R33X	MF RESISTOR
	R8	QRD14AJ-200Y	RESISTOR
	R9	QRD146J-200S	RESISTOR
◭	R10	QRD146J-820S	RESISTOR
◭	R12	QRD122J-105	RESISTOR
	R21	QRD123J-220SX	RESISTOR
	R22	QRD14AJ-153Y	RESISTOR
	R23	QRD14AJ-512Y	RESISTOR
	R24	QRD14AJ-162Y	RESISTOR
	R25	QRD14AJ-102Y	RESISTOR
	R26	QRD14AJ-302Y	RESISTOR
	R27	QRD14AJ-514Y	RESISTOR
	R28	QRD14AJ-751Y	RESISTOR
	R29	QRD14AJ-271Y	RESISTOR
	R30	QRD14AJ-103Y	RESISTOR
	R31	QRD14AJ-161Y	RESISTOR
	R32	QRD14AJ-113Y	RESISTOR
	R33	QRD14AJ-221Y	RESISTOR
	R34	QRD14AJ-471Y	RESISTOR
	R35	QRD14AJ-271Y	RESISTOR
	R36	QRD14AJ-471Y	RESISTOR
	R37	QRD14AJ-472Y	RESISTOR
	R38	QRD14AJ-331Y	RESISTOR
	R39	QRD14AJ-331Y	RESISTOR
	R40	QRX016G-R10A	MF RESISTOR
	R41	QRD14AJ-272Y	RESISTOR
	VR21	QVZ3518-103	V RESISTOR
	OR	QVZ3523-103	V RESISTOR
	VR22	QVZ3518-103	V RESISTOR
	OR	QVZ3523-103	V RESISTOR
◭	C1	YU40302	MM CAPACITOR
◭	OR	QFZ9031-104	MM.CAP
◭	C2	YU41193	E CAPACITOR
	C3	QFD52GK-473	M CAPACITOR
	C4	QETB1VM-226	E CAPACITOR
	C5	QETC1VM-337	E CAPACITOR
◭	C6	YU41330	ｷｬﾌﾟﾘｽﾀ
◭	C7	QCZ9045-102	CAPACITOR
	C21	QEZ0154-687	E CAPACITOR
	C22	QETC1CM-106	E CAPACITOR
	C23	QETB1CM-107	E CAPACITOR
	C24	QETC1HM-105	E CAPACITOR
	C25	QFLA1HK-472	M CAPACITOR
	C26	QFV41HJ-683	M CAPACITOR
	C27	QFV41HJ-104	M CAPACITOR
	C28	QFLA1HK-332Z	M CAPACITOR
	C29	YU40304	CAPACITOR
	C30	QFL41HJ-103	MY CAP
◭	L1	YU41130	COIL
◭	L2	YU41331	TROIDAL COIL
	L21	YU41200	N CHOKE COIL
⚠	PHC1	ON3161-R	PHOTO COUPLER
	OR	PC817B	
◭	X21	YU41137	C.RESONATOR
◭	T1	YU41100	SW TRANS
◭	OR	YU41101	SW TRANS
◭	VA1	ERZ-C07DK471U	VARISTER
	CN1	YU41166-4	HOUSING
⚠	F1	QMF51J2-2R0	FUSE, NOT INCLUDED
**	**********	**********	**********
			********** * 4. SUB BOARD ASSEMBLY <02> * **********
	PWBA	YB30050A	SUB PWB ASS'Y
◭	IC51	M51978FP	IC
◭	IC71	HA012611S1	IC
	Q71	UN2113	TRANSISTOR
	OR	DTA144EK	TRANSISTOR
	Q72	UN2113	TRANSISTOR
	OR	DTA144EK	TRANSISTOR
	Q73	UN2113	TRANSISTOR
	OR	DTA144EK	TRANSISTOR
	Q74	UN2213	TRANSISTOR
	OR	DTC144EK	TRANSISTOR
	Q75	UN2213	TRANSISTOR
	OR	DTC144EK	TRANSISTOR
	D71	MA151WK	DIODE
	OR	DAN202K	DIODE
	R51	QRSA08J-222YN	RESISTOR
	R52	QRSA08J-102YN	RESISTOR

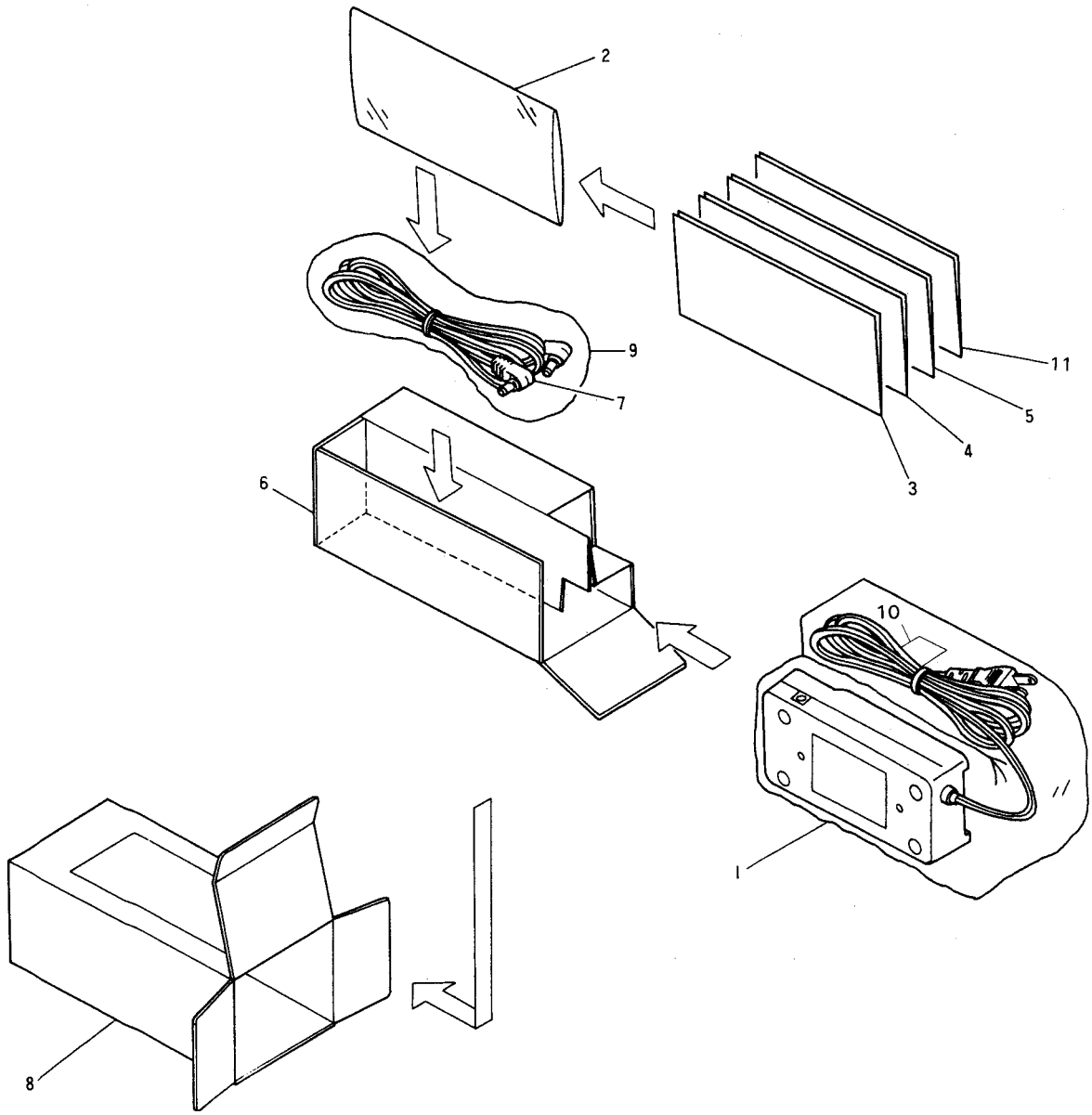
#i	REF NO.	PART NO.	PART NAME, DESCRIPTION
	R53	QRSA08J-224YN	RESISTOR
	R54	QRSA08J-223YN	RESISTOR
	R55	QRSA08J-123YN	RESISTOR
	R71	QRSA08J-431YN	RESISTOR
	R72	QRSA08J-751YN	RESISTOR
	R73	QRSA08J-103YN	RESISTOR
	R74	QRSA08J-472YN	RESISTOR
	R75	QRSA08J-104YN	RESISTOR
	R76	QRSA08J-472YN	RESISTOR
	R77	QRSA08J-332YN	RESISTOR
	R78	QRSA08J-622YN	RESISTOR
	R79	QRSA08J-752YN	RESISTOR
	R80	QRSA08J-271YN	RESISTOR
	R81	QRS188J-242YN	RESISTOR
	R82	QRS188J-133YN	RESISTOR
	R83	QRSA08J-622YN	RESISTOR
	C51	QCFA1HZ-104	CAPACITOR
	C52	QCFA1EZ-104	CAPACITOR
	C53	QCFA1EZ-104	CAPACITOR
	C54	QCYA1HK-222	CAPACITOR
	C55	QCFA1EZ-104	CAPACITOR
	C56	QCTA1CH-391	CAPACITOR
	C57	QCYA1HK-222	CAPACITOR
	C71	QCFA1EZ-104	CAPACITOR
	C72	QCYA1HK-103	CAPACITOR
	J51	QRSA08J-0R0Y	RESISTOR
	J52	QRS188J-0R0Y	RESISTOR
	J71	QRS188J-0R0Y	RESISTOR
	J72	QRS188J-0R0Y	RESISTOR
	J73	QRS188J-0R0Y	RESISTOR

****

****
* 5. SWITCH BOARD ASSEMBLY <03> *
****

PWBA	YB40041A	SW PWB ASS'Y
SW1	YU41138	SWITCH
SW2	YU41138	SWITCH
CN2	YU41197-4	CONNECTOR

PACKING ASSEMBLY <M1>



#⚠	REF NO.	PART NO.	PART NAME, DESCRIPTION
			1. PACKING ASSEMBLY <M1>
	1	QPGA013-06205	POLY BAG
	2	QPGA010-02003	POLY BAG
⚠	3	YU30052-87	INSTRACTIONS
	4	BT20046D	TOLL FREE CARD
	5	PU33941-3-2	SAFETY CAUTION
	6	YQ10131-001	CUSHION
⚠	7	YU41165	DC PLUG CORD
	8	YU20087-5	PACKING CASE,
	9	QPGA024-00703	POLY BAG
⚠	10	PU57167	CAUTION TAG
	11	BT20061B	WARRANTY CARD

TECHNICAL INFORMATIONS

7.1 POWER ADAPTER PIN FUNCTION

Pin No.	REF	IN/OUT	Note
1	R7	Input	L with battery inserted and SW1 ON.
2	R8	〃	H when DC Jack Connected
3	R9	Output	L at fast charge, LED 23 (red) lights. H at trickle charge, LED 23 (red) extinguished.
4	NC	—	
5	AV +	Input	5 V
6	AV −	〃	GND
7	AN	〃	Battery Voltage detector analog in put.
8	NC	—	
9	NC	—	
10	R6	—	Not used. Connected to ground.
11 12	X EX	Output Input	4 MHz X'TAL OSC
13	VSS	Input	GND
14	RO	Output	L during charge Q23 ON. H at 24 hour limit, end trickle charge.
15	R1	〃	L at adapter mode.
16	NC	—	
17	R2	Input	Signal input for switching to fast charge. Shift to fast charge at H.
18	R3	Output	L out put at fast charge Q72 ON. H at fast charge completion.
19	R4	〃	L output at trickle charge, LED 22 (green) lights. L mainteined also after 24 hour limit.
20	R5	〃	L output at adapter mode, Q71 ON.
21	VSS	Input	GND
22	TEST	〃	GND
23	RESET	〃	Initialize at L level.
24	VCC	〃	5 V